

Interactivate

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Surface Area and Volume

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Surface Area and Volume Curriculum Context and Resources

Description

This activity allows the user to manipulate three-dimensional polyhedrons to experiment with surface area and volume.

This Java applet requires a Java-capable browser. If the activity does not work, Java may not be functional in your browser or on your machine. This activity would work well in groups of 2 for about 25-30 minutes if you use the [exploration questions](#) and 15-20 minutes otherwise.

Place in Mathematics Curriculum

This activity can be used to:

- illustrate notions of surface area and volume
- develop students visualization skills
- practice students skills at estimating surface area and volume

Standards Addressed: [Please select a standards alignment](#) ▾

Textbooks Aligned: [Please select a textbook alignment](#) ▾

Be Prepared to

- answer the question "What is a prism?"
- discuss surface area and volume
- Define:
 - base of the triangular prism
 - height of the triangular prism
 - width of the triangular prism
 - base depth of the triangular prism

Related Resources

- Discussion about [Finding the Surface Area of a Rectangular Prism](#)
- Discussion about [Finding the Surface Area of a Triangular Prism](#)
- Discussion about [Finding the Volume of a Rectangular Prism](#)
- Discussion about [Finding the Volume of a Triangular Prism](#)
- Discussion about [Slant Height](#)
- Discussion about [Understanding Surface Area and Volume](#)
- Lesson on [Area](#)
- Lesson on [Surface Area and Volume](#)
- Lesson on [Surface Area of Prisms](#)
- Lesson on [Surface Area of Rectangular Prisms](#)

- Lesson on [Volume of Prisms](#)
- Lesson on [Volume of Rectangular Prisms](#)
- Worksheet [Surface Area and Volume Exploration Questions](#)
- Worksheet [Surface Area and Volume Exploration Questions \(doc\)](#)
- Worksheet [Worksheet To Accompany the "Surface Area and Volume" Lesson](#)
- Worksheet [Worksheet To Accompany the "Surface Area and Volume" Lesson \(doc\)](#)

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